IN THE CLAIMS

1. (Original) A stereoscopic image display apparatus comprising:

a light source radiating light of a wavelength in a predetermined wavelength range;

a one-dimensional spatial modulator including one-dimensionally arrayed elements that are independently driven to generate an arbitrary phase distribution; and

a scan unit scanning the light to a predetermined direction, the light being from said light source, having entered into said one-dimensional spatial modulator and having been modulated therein.

2. (Original) The stereoscopic image display apparatus according to claim 1, wherein

said scan unit scans the light modulated by said one-dimensional spatial modulator in a direction perpendicular to an arraying direction of the element of said one-dimensional spatial modulator.

3. (Original) The stereoscopic image display apparatus according to claim 1, wherein

said light source is provided with laser oscillators radiating laser beams having wavelengths in predetermined wavelength ranges severally corresponding to red, green and blue.

4. (Original) The stereoscopic image display apparatus according to claim 1, said apparatus further comprising:

a diffuser panel diffusing modulated light scanned by said scan unit.

5. (Original) The stereoscopic image display apparatus according to claim 1, wherein

said one-dimensional spatial modulator comprises a Grating Light Valve.

6. (Original) A stereoscopic image display apparatus comprising:

a light source radiating light having a wavelength in a predetermined wavelength range;

a Grating Light Valve device that can independently drive each ribbon-like element therein to generate an arbitrary phase distribution;

a collimator lens making the light modulated by said Grating Light Valve device into parallel ray;

a scan unit scanning the parallel ray coming from said collimator lens;

a lens performing Fourier transformation on the scanned ray; and

a diffuser panel diffusing the ray Fourier transformed by said lens.

7. (Currently amended) A stereoscopic image display apparatus comprising:

means for radiating coherent light;

means for spatially modulating the coherent light in ~~an~~ a one-dimensional direction to generate an arbitrary phase distribution; and

means for scanning the modulated light to a predetermined direction orthogonal to said one-dimensional direction.

8. (Currently amended) A stereoscopic image display method comprising:

radiating coherent light;

spatially modulating the coherent light in ~~an~~ a one-dimensional direction to generate an arbitrary phase distribution; and

scanning the modulated light to a predetermined direction orthogonal to said one-dimensional direction.